# Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 8/10/2015 (Developing El Nino Condition)

### Lake Okeechobee Net Inflow Outlook:

The Lake Okeechobee Net Inflow Outlook has been computed using 4 methods: Croley's method<sup>1</sup>, the SFWMD empirical method<sup>2</sup>, a sub-sampling of El Nino years<sup>3</sup> and a sub-sampling of cold years of the Atlantic Multi-decadal Oscillation (AMO) in combination with ENSO El Nino years<sup>4</sup>. The results for Croley's method and the SFWMD empirical method are based on the <u>CPC Outlook</u>.

Table of the Lake Okeechobee Net Inflow Outlooks in feet of equivalent depth. All methods are updated on a weekly basis with observed net inflow for the current month.

| Season                             | Croley's<br>Method <sup>1*</sup> |           | SFWMD<br>Empirical<br>Method <sup>2</sup> |                  | Sub-sampling of<br>ENSO El Nino<br>Years <sup>3</sup> |                  | Sub-sampling of<br>AMO Warm +<br>ENSO El Nino<br>Years <sup>4</sup> |           |
|------------------------------------|----------------------------------|-----------|---|------------------|---|------------------|---|-----------|
|                                    | Value<br>(ft)                    | Condition | Value<br>(ft)                             | <u>Condition</u> | Value<br>(ft)   | <u>Condition</u> | Value<br>(ft)   | Condition |
| Current<br>(Aug-<br>Jan)           | N/A                              | N/A       | 2.20                                      | Very Wet         | 2.55  | Very Wet         | 1.57  | Wet       |
| Multi<br>Seasonal<br>(Aug-<br>Apr) | N/A                              | N/A       | 2.43                                      | Normal           | 3.49  | Wet              | 2.22  | Normal    |

\*Croley's Method Not Produced For This Report

See <u>Seasonal</u> and <u>Multi-Seasonal</u> tables for the classification of Lake Okeechobee Outlooks.

The recommended methods and values for estimating the Lake Okeechobee Net Inflow Outlook are shaded and should be used in the LORS2008 Release Guidance Flow Charts.

#### Tributary Hydrologic Conditions Graph:

**2040 cfs** 14-day running average for Lake Okeechobee Net Inflow through 8/10/2015. According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Normal.

**-0.95** for Palmer Index on 8/9/2015.

According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Normal.

The wetter of the two conditions above is **Normal**.

### LORS2008 Classification Tables:

#### Lake Okeechobee Stage on 8/10/2015

Lake Okeechobee Stage: 12.27 feet

USACE Report for Lake Okeechobee

Lake Okeechobee Stage Hydrograph

| Lake Okeechob<br>Zone/ | ee Management<br>'Band   | Bottom Elevation<br>(feet, NGVD) | Current<br>Lake Stage |
|------------------------|--------------------------|----------------------------------|-----------------------|
| High Lake Manage       | ement Band               | 16.33                            |                       |
|                        | High sub-band            | 15.91                            |                       |
| Operational<br>Band    | Intermediate<br>sub-band | 15.49                            |                       |
|                        | Low sub-band             | 13.65                            |                       |
| Base Flow sub-ba       | nd                       | 12.60                            |                       |
| Beneficial Use sub     | o-band                   | 11.93                            | ← 12.27               |
| Water Shortage M       | anagement Band           |                                  |                       |

### Part C of LORS2008: Discharge to WCA's

Release Guidance Flow Chart Outcome: No Releases to the WCAs

### Part D of LORS2008: Discharge to Tidewater

Release Guidance Flow Chart Outcome: No Releases to the Estuaries

### **Technical Input Summaries from:**

- Lake Okeechobee Division
- Coastal Ecosystems
- Everglades Ecosystems Division
- Water Supply Department
- Water Resource Management Release Recommendation
- Kissimmee Watershed Environmental Conditions
- Operations Department

Back to Lake Okeechobee Operations Main Page

Back to U.S. Army Corps of Engineers LORSS Homepage

### LORS2008 Implementation on 8/10/2015 (ENSO Neutral Condition):

#### Water Supply Department Technical Input

#### Water Supply Outlook:

District wide, Raindar rainfall 0.65 inches for the week ending 8/10/2015. Lake stage on 8/10/2015 is 12.27 ft, up 0.02 ft from last week.

The updated August 2015 SFWMM Dynamic Position Analysis <u>percentile graph</u> and <u>tracking chart</u> for Lake Okeechobee show that the lake stage is in the Beneficial Use Operational Sub-Band.

The LORS2008 tributary <u>indices</u> are classified as **Normal**. The PDSI indicates normal condition and the LONIN is Normal. The classification is based on the wetter of the two.

| Area | Indicator                                      | Value  | Color Coded<br>Scoring Scheme |
|------|--|--|-------------------------------|
|      | Projected LOK Stage for the next two months    | Base Flow Sub-Band   | М                             |
|      | Palmer Index for LOK Tributary Conditions      | -0.95<br>(Normal)  | L                             |
| IOK  | CPC Precipitation Outlook                      | 1 month: Normal  | L                             |
| LOIX | CFC Fredpitation Outlook                       | 3 months: Normal   | L                             |
|      | LOK Seasonal Net Inflow Forecast               | 2.55 ft  |                               |
|      | AMO warm/El Nino                               | (Normal to Extremely Wet)  | _                             |
|      | LOK Multi-Seasonal Net Inflow Forecast         | 3 49 ft (W/et)   |                               |
|      | AMO warm/El Nino                               |  |                               |
|      | WCA 1: Site 1-8C                               | Above Line 1 (15.51 ft)  | L                             |
| WCAs | WCA 2A: Site 2-17 HW                           | Above Line 1 (11.89 ft)  | L                             |
|      | WCA-3A: 3 Station Average (Site 63, 64 and 65) | Between Line 1 & 2 (8.66 ft)   | М                             |
|      | Service Area 1                                 | 50% or more of USGS wells are within<br>the lowest 10% to 30% of past water<br>elevations and not more than 25% are<br>in the lowest 10% of past water<br>elevations | М                             |
| LEC  | Service Area 2                                 | 50% or more of USGS wells are within<br>the lowest 10% to 30% of past water<br>elevations and more than 25% are in<br>the lowest 10% of past water<br>elevations     | н                             |
|      | Service Area 3                                 | 50% or more of USGS wells are within<br>the lowest 10% to 30% of past water<br>elevations and more than 25% are in<br>the lowest 10% of past water<br>elevations     | н                             |

#### Water Supply Risk Evaluation

Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow forecasts use slightly different classification intervals than those used by the 2008-LORS for classifying the tributary hydrologic condition (THC).

Back to Lake Okeechobee Operations Main Page

Back to U.S. Army Corps of Engineers LORSS Homepage

# Lake Okeechobee SFWMM August 2015 Dynamic Position Analysis



(See assumptions on the Position Analysis Results website)

## Tributary Basin Condition Indicators as of August 10 2015

Palmer Index



Mon Aug 10 14:26:57 EDT 2015

# 2008 LORS

Part C: Establish Allowable Lake Okeechobee Releases to the Water Conservation Areas



# 2008 LORS

Part D: Establish Allowable Lake Okeechobee Releases to Tide (Estuaries)



## Lake Okeechobee Water Level History and Projected Stages



LORS-2008 Adopted by USACE 28-April-2008

Projected Stage Percentiles From SFWMD-HESM Position Analysis

U. S. Army Corps of Engineers, Jacksonville District Lake Okeechobee and Vicinity Report \*\* Preliminary Data - Subject to Revision \*\* Data Ending 2400 hours 09 AUG 2015 Okeechobee Lake Regulation Elevation Last Year 2YRS Ago (ft-NGVD) (ft-NGVD) (ft-NGVD) 12.27 \*Okeechobee Lake Elevation 14.27 16.04 (Official Elv) Bottom of High Lake Mngmt= 16.33 Top of Water Short Mngmt= 11.93 Currently in Operational Management Band Simulated Average LORS2008 [1965-2000] 12.83 Difference from Average LORS2008 -0.56 09AUG (1965-2007) Period of Record Average 13.89 Difference from POR Average -1.62 Today Lake Okeechobee elevation is determined from the 4 Int & 4 Edge stations ++Navigation Depth (Based on 2007 Channel Condition Survey) Route 1 ÷ 6.21' ++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 ÷ 4.41' Bridge Clearance = 49.71' 4 Interior and 4 Edge Okeechobee Lake Average (Avg-Daily values): L001 L005 L006 LZ40 S4 S352 S308 S133 12.14 12.34 12.30 12.23 12.31 12.44 12.19 12.23 \*Combination Okeechobee Avg-Daily Lake Average = 12.27 (\*See Note) Okeechobee Inflows (cfs): 0 0 S65E 1038 C5 Fisheating Cr 522 S191 S154 0 S135 Pumps 0 S84 0 S133 Pumps -NR-0 S2 Pumps 289 -NR-S84X S127 Pumps S3 Pumps 0 0 0 S71 0 S129 Pumps S4 Pumps 0 S72 0 S131 Pumps Total Inflows: 1849 Okeechobee Outflows (cfs): S135 Culverts -NR- S354 0 S77 123 (Used) S127 Culverts 0 S351 0 S77Below 87 (NOT USED)

0 \$308 S129 Culverts 0 S352 -2 (Used) S131 Culverts 0 L8 Canal Pt 23 S308Below 113 (NOT USED) Total Outflows: 143 \*\*\*\*S77 Structure outflow is being used to compute Total Outflow. \*\*\*\*S308 Structure outflow is being used to compute Total Outflow. Okeechobee Pan Evaporation (inches): S308 S77 0.33 0.55 Average Pan Evap x 0.75 Pan Coefficient = 0.33" = 0.03' Lake Average Precipitation using NEXRAD: = 0.15" = 0.01' Evaporation - Precipitation: = 0.18" = 0.01' Evaporation - Precipitation using Lake Area of 730 square miles is equal to 3533 cfs out of the lake. Lake Okeechobee (Change in Storage) Flow is -1966 cfs or -3900 AC-FT

—

\_

Note: Headwater, tailwater, and stage values below are instantaneous values unless otherwise specified.

|               | Headwater | Tailwater |         | Gate Positions |         |         |         |      |         |         |
|---------------|-----------|-----------|---------|----------------|---------|---------|---------|------|---------|---------|
|               |           |           |         |                |         |         |         |      |         |         |
|               | Flevation | Flevation | Disch   | #1             | #2      | #3      | #4      | #5   | #6      | #7      |
| <u>що</u>     | BIEVACION | LIEVACION | DISCH   | #1             | #4      | πJ      | #1      | πJ   | #0      | π/      |
| #0            |           |           | (       | ( = + )        | ( 5 + ) | ( 5 + ) | ( 5 + ) | (    | ( = + ) | ( = + ) |
| ( 5 . )       | (IC-MSI)  | (IC-MSI)  | (CIS)   | (IC)           | (IC)    | (IC)    | (IC)    | (IC) | (IC)    | (IC)    |
| (It)          |           |           |         |                |         |         |         |      |         |         |
|               |           | (I        | ) see n | ote at         | t bott  | com     |         |      |         |         |
| North East Sl | nore      |           |         |                |         |         |         |      |         |         |
| S133 Pumps    | : 13.19   | 12.34     | -NR-    | 0              | -NR-    | 0       | 0       | 0    | (cfs    | )       |
| S193:         |           |           |         |                |         |         |         |      |         |         |
| S191:         | 18.28     | 12.31     | 0       | 0.0            | 0.0     | 0.0     |         |      |         |         |
| S135 Pumps    | :         | -NR-      | 0       | 0              | 0       | 0       | 0       |      | (cfs    | )       |
| S135 Culve    | rts:      |           | -NR-    | -NR-           | -NR-    |         |         |      |         |         |
|               |           |           |         |                |         |         |         |      |         |         |
| North West St | lore      |           |         |                |         |         |         |      |         |         |
| CEEF.         | 20 02     | 12 50     | 1029    | 03             | 06      | 06      | 07      | 03   | 0 0     |         |
| CI Dimor      | · 12 70   | 12.59     | T020    | 0.5            |         | 0.0     | 0.7     | 0.5  | 0.0     | \<br>\  |
| SIZ/ Pullips  | • 13.70   | 12.20     | -NR-    | 0              | -NR-    | 0       | 0       | 0    | (CIS    | )       |
| SIZ/ Culves   | rt:       |           | 0       | 0.0            |         |         |         |      |         |         |
|               |           |           | _       |                |         |         |         |      |         |         |
| S129 Pumps    | : 12.99   | 12.32     | 0       | 0              | 0       | 0       |         |      | (cfs    | )       |
| S129 Culve    | rt:       |           | 0       | 0.1            |         |         |         |      |         |         |
|               |           |           |         |                |         |         |         |      |         |         |
| S131 Pumps    | : 13.37   | 12.46     | 0       | 0              | 0       |         |         |      | (cfs    | )       |
| S131 Culver   | rt:       |           | 0       |                |         |         |         |      |         |         |
|               |           |           |         |                |         |         |         |      |         |         |
| Fisheating    | Creek     |           |         |                |         |         |         |      |         |         |
| nr Palmda     | ale       | 32.17     | 522     |                |         |         |         |      |         |         |
| nr Laken      | ort       | 12 89     |         |                |         |         |         |      |         |         |
| in hance      | <u> </u>  | 12.00     |         |                |         |         |         |      |         |         |

| C5:           | 12.49       | 12.34             | 0       | 0.0 0   | .0 0   | .0    |       |     |       |     |
|---------------|-------------|-------------------|---------|---------|--------|-------|-------|-----|-------|-----|
| South Shore   |             |                   |         |         |        |       |       |     |       |     |
| S4 Pumps:     | 12.25       | 12.24             | 0       | 0       | 0      | 0     |       |     | (cfs  | ;)  |
| S169:         | 12.27       | 12.26             | 112     | 5.0     | 5.0    | 5.0   |       |     |       |     |
| S310:         | 12.23       |                   | 150     |         |        |       |       |     |       |     |
| S3 Pumps:     | 9.88        | 12.36             | 0       | 0       | 0      | 0     |       |     | (cfs  | ;)  |
| S354:         | 12.36       | 9.88              | 0       | 0.0     | 0.0    | •     |       |     | ( = = | ,   |
| S2 Pumps:     | 9 76        | 12 19             | 0       | 0.0     | 0.0    | 0     | 0     |     | (cfs  | .)  |
| 92 1 amp5 1   | 12 19       | 9 76              | 0       |         |        |       | 0     |     | (CIL  | · / |
| G3E3.         | 12.15       | 9.70              | 0       | 0.0     | 0.0    | 0.0   |       |     |       |     |
| 0107.         | 12.35<br>MD | 9.00<br>10.2E     | 0       |         | 0.0    | 0     | E 0   | F   | 0 E   |     |
| LIUA.         |             | 12.35             | 22      | 0.5     | 0.0    | ٥.    | 5 0   | . 5 | 0.5   |     |
| Lo Callal PI  | L           | 12.14             | 23      |         |        |       |       |     |       |     |
|               | S35         | 1 and S352        | Tempora | ary Pum | ips/S3 | 54 Sp | illwa | ·У  |       |     |
| S351:         | 9.76        | 12.19             | 0       | -NRN    | IRNR   | NR-   | -NR   | NR- |       |     |
| S352:         | 9.68        | 12.35             | 0       | -NRN    | IRNR   | NR-   |       |     |       |     |
| S354:         | 9.88        | 12.36             | 0       | -NRN    | IRNR   | NR-   |       |     |       |     |
| Caloogabataba | Do Pivor (  | c77 c79           | 970)    |         |        |       |       |     |       |     |
| caroosanatche | 12 25       | , ס/כ, //כ<br>תוא | 519)    | 0 0     | 0 0    |       |       |     |       |     |
| 54/B·         | 11 04       | -NR-              | 2.0     | 0.0     | 0.0    |       |       |     |       |     |
| S47D:<br>S77: | 11.04       | 11.04             | -38     | 5.0     |        |       |       |     |       |     |
| Spillway      | and Sector  | r Flow:           |         |         |        |       |       |     |       |     |
|               | 12.06       | 11.05             | 122     | 0.5     | 0.0    | 0.0   | 0.5   |     |       |     |
| Flow Due      | to Lockag   | es+:              | 1       |         |        |       |       |     |       |     |
| S77 Below U   | JSGS Flow ( | Gage              | 87      |         |        |       |       |     |       |     |
| S78:          |             |                   |         |         |        |       |       |     |       |     |
| Spillway      | and Sector  | r Flow:           |         |         |        |       |       |     |       |     |
| 1 1           | 10.97       | 2.94              | 0       | 0.0     | 0.0    | 0.0   | 0.0   |     |       |     |
| Flow Due      | to Lockag   | es+:              | 7       |         |        |       |       |     |       |     |
| s79:          |             |                   |         |         |        |       |       |     |       |     |
| Spillway      | and Sector  | r Flow:           |         |         |        |       |       |     |       |     |
| 0.0           | 3.11        | 1.45              | 635     | 0.0     | 0.0    | 1.0   | 1.0   | 1.0 | 0.0   | 0.0 |
| U.U           | to Indian   | 0.01.             | 0       |         |        |       |       |     |       |     |
| FIOW Due      | LO LOCKAG   | es+•              | 8       |         |        |       |       |     |       |     |
| Percent o     | DI ILOW IR  | om S//            | 198     |         |        |       |       |     |       |     |
| Chloride      |             | (ppm)             | 64      |         |        |       |       |     |       |     |
| St. Lucie Car | nal (S308,  | S80)              |         |         |        |       |       |     |       |     |
| 5308:         | 1           |                   |         |         |        |       |       |     |       |     |
| Spillway      | and Sector  | r Flow:           |         |         |        |       |       |     |       |     |
| _             | 12.10       | 13.79             | 0       | 0.0     | 0.0    | 0.0   | 0.0   |     |       |     |
| Flow Due      | to Lockag   | es+:              | -2      |         |        |       |       |     |       |     |
| S308 Below    | USGS Flow   | Gage              | 113     |         |        |       |       |     |       |     |
| S153:         | 18.73       | 13.65             | 3       | 0.0     | 0.0    |       |       |     |       |     |
| S80:          |             |                   |         |         |        |       |       |     |       |     |
| Spillway      | and Sector  | r Flow:           |         |         |        |       |       |     |       |     |
|               | 13.89       | 0.73              | 0       | 0.0     | 0.0    | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 |

| Flow             | Due to         |                   |                   | б         |              |            |         |
|------------------|----------------|-------------------|-------------------|-----------|--------------|------------|---------|
| Perce            | ent of         | flow fr           | com S308          | В         | NA           | 010        |         |
| Steele           | Point          | Top Sal           | inity             | (         | mg/n         | nl)        | * * * * |
| Steele           | Point          | Bottom            | Salinit           | ty (      | mg/n         | nl)        | * * * * |
| Speedy<br>Speedy | Point<br>Point | Top Sal<br>Bottom | linity<br>Salinit | (<br>ty ( | mg/n<br>mg/n | nl)<br>nl) | * * * * |

+ Flow Due to lockages is computed utilizing average daily headwater and tailwater along with total number of lockages for the day to calculate a volume which is then converted to an average discharge in cfs.

| _  |             |          |          | Wi         | nd   |
|--|-------------|----------|----------|------------|------|
| -<br>Daily Precipitation Totals<br>Speed | 1-Day       | 3-Day    | 7-Day    | Directio   | n    |
| Speed                                    | (inches)    | (inches) | (inches) | (Degø)     |      |
| (mph)                                    | (,          | ( )      | ( ,      | (==5,2,7,7 |      |
| S133 Pump Station:                       | 0.02        | 0.26     | 0.26     |            |      |
| S193:                                    | -NR-        | 0.00     | 0.00     | -NR-       | -NR- |
| Okeechobee Field Station:                | -NR-        | 0.00     | 0.00     |            |      |
| S135 Pump Station:                       | 0.02        | 0.09     | 0.09     |            |      |
| S127 Pump Station:                       | 0.20        | 0.68     | 0.68     |            |      |
| S129 Pump Station:                       | 0.40        | 0.40     | 0.40     |            |      |
| S131 Pump Station:                       | 0.33        | 0.34     | 0.42     |            |      |
| S77:                                     | 0.01        | 0.01     | 0.13     | 52         | 1    |
| S78:                                     | 0.06        | 0.50     | 0.73     | 305        | 2    |
| S79:                                     | 0.19        | 0.33     | 0.40     | 222        | 1    |
| S4 Pump Station:                         | -NR-        | 0.00     | 0.00     |            |      |
| Clewiston Field Station:                 | -NR-        | 0.00     | 0.00     |            |      |
| S3 Pump Station:                         | 0.00        | 0.17     | 0.25     |            |      |
| S2 Pump Station:                         | 0.00        | 0.10     | 0.10     |            |      |
| S308:                                    | 0.00        | 0.07     | 0.12     | 40         | 3    |
| S80:                                     | 0.00        | 0.00     | 0.38     | 26         | 0    |
| Okeechobee Average                       | 0.11        | 0.16     | 0.19     |            |      |
| (Sites S78, S79 and                      | S80 not inc | luded)   |          |            |      |
| Oke Nexrad Basin Avg                     | 0.15        | 0.31     | 0.31     |            |      |
|  |             |          |          |            |      |

| _          |      |        |         |    |     |      |       |            |       |
|------------|------|--------|---------|----|-----|------|-------|------------|-------|
| Okeechobee | Lake | e Elev | vations | 09 | AUG | 2015 | 12.27 | Difference | from  |
| 09AUG15    |      |        |         |    |     |      |       |            |       |
| 09AUG15    | -1   | Day    | =       | 08 | AUG | 2015 | 12.28 |            | 0.01  |
| 09AUG15    | -2   | Days   | =       | 07 | AUG | 2015 | 12.29 |            | 0.02  |
| 09AUG15    | -3   | Days   | =       | 06 | AUG | 2015 | 12.29 |            | 0.02  |
| 09AUG15    | -4   | Days   | =       | 05 | AUG | 2015 | 12.29 |            | 0.02  |
| 09AUG15    | -5   | Days   | =       | 04 | AUG | 2015 | 12.29 |            | 0.02  |
| 09AUG15    | -б   | Days   | =       | 03 | AUG | 2015 | 12.28 |            | 0.01  |
| 09AUG15    | -7   | Days   | =       | 02 | AUG | 2015 | 12.25 |            | -0.02 |
| 09AUG15    | -30  | Days   | =       | 10 | JUL | 2015 | 12.11 |            | -0.16 |
| 09AUG15    | -1   | Year   | =       | 09 | AUG | 2014 | 14.27 |            | 2.00  |
| 09AUG15    | -2   | Year   | =       | 09 | AUG | 2013 | 16.04 |            | 3.77  |

Long Term Mean 30day Avearge ET for Lake Alfred (Inches) = -NR-Lake Okeechobee Net Inflow (LONIN) Average Flow over the previous 14 days Avg-Daily Flow Today = 09 AUG 2015 09AUG15 2251 MON -1822 09AUG15 -1 Day = 08 AUG 2015 3092 SUN -1848 09AUG15 -2 Days = 07 AUG 2015 3805 SAT 314 09AUG15 -3 Days = 06 AUG 2015 4222 FRI 422 09AUG15 - 4 Days =05 AUG 2015 4485 THU 422 09AUG15 -5 Days = 04 AUG 2015 4518 WED 2296 09AUG15 -6 Days = 03 AUG 2015 4414 TUE 5900 

 03
 AUG
 2015

 02
 AUG
 2015

 01
 AUG
 2015

 31
 JUL
 2015

 30
 JUL
 2015

 29
 JUL
 2015

 28
 JUL
 2015

 27
 JUL
 2015

 4299 MON 4314 SUN 3866 SAT 3803 FRI 3500 THU 09AUG15 -7 Days = 4122 09AUG15 -8 Days = 10115 09AUG15 -9 Days = 2308 09AUG15 -10 Days = 4215 09AUG15 -11 Days = 3500 THU 2316 09AUG15 -12 Days = 3232 WED 432 09AUG15 -13 Days = 2319 2970 TUE S65E Average Flow over previous 14 days Avg-Daily Flow 09 AUG 2015 1038 09AUG15 Today= 927 MON 09AUG15 -1 Day = 08 AUG 2015 899 SUN 1076 07 AUG 2015 06 AUG 2015 05 AUG 2015 09AUG15 -2 Days = 868 SAT 1096 09AUG15 -3 Days = 845 FRI 1090 811 THU 09AUG15 -4 Days = 988 04 AUG 2015 09AUG15 -5 Days = 776 WED

739 TUE

735 MON

699 SUN

690 SAT

677 FRI

663 THU 674 WED

678 TUE

1084

807

745

838

896 717

830

743

1033

Lake Okeechobee Outlets Last 14 Days

 09AUG15
 -7
 Days
 02
 AUG
 2015

 09AUG15
 -8
 Days
 =
 01
 AUG
 2015

 09AUG15
 -9
 Days
 =
 31
 JUL
 2015

 09AUG15
 -10
 Days
 =
 30
 JUL
 2015

 09AUG15
 -11
 Days
 =
 29
 JUL
 2015

 09AUG15
 -12
 Days
 =
 28
 JUL
 2015

 09AUG15
 -13
 Days
 =
 27
 JUL
 2015

09AUG15 -6 Days =

09AUG15 -7 Days =

|    |      |      | S-77       | S-77      | Below S-77 | S-78          | S-78      | S-79      |
|----|------|------|------------|-----------|------------|---------------|-----------|-----------|
|    |      | I    | Discharge  | Discharge | Discharge  | Discharge     | Discharge | Discharge |
|    |      | ( (  | 0700-2100) | (ALL DAY) | (ALL-DAY)  | (0700 - 2100) | (ALL DAY) | (ALL DAY) |
|    | DATE | 2    | (AC-FT)    | (AC-FT)   | (AC-FT)    | (AC-FT)       | (AC-FT)   | (AC-FT)   |
| 09 | AUG  | 2015 | 144        | -NA-      | 172        | 0             | 13        | 1275      |
| 08 | AUG  | 2015 | 135        | -NA-      | 189        | 0             | 11        | 1189      |
| 07 | AUG  | 2015 | 51         | 82        | 113        | 0             | 20        | 1546      |
| 06 | AUG  | 2015 | 156        | 296       | 489        | 3             | 96        | 2069      |
| 05 | AUG  | 2015 | 220        | 282       | 348        | 256           | 478       | 2205      |
| 04 | AUG  | 2015 | 0          | 2         | -39        | 351           | 605       | 3105      |
| 03 | AUG  | 2015 | 0          | 2         | -144       | 346           | 599       | 3075      |
| 02 | AUG  | 2015 | 0          | 2         | -122       | 344           | 588       | 3553      |

03 AUG 2015

02 AUG 2015

| 01<br>31<br>30<br>29<br>28<br>27   | AUG<br>JUL<br>JUL<br>JUL<br>JUL<br>JUL  | 2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015         | 0<br>0<br>0<br>86<br>0   | 3<br>1<br>70<br>-NA-<br>1   | -149<br>-34<br>-74590<br>-62735<br>54<br>-134  | 352<br>537<br>269<br>132<br>447<br>527  | 763<br>1013<br>491<br>465<br>1063<br>1156   | 3389<br>3748<br>3655<br>4500<br>3574<br>7442 |
|--|---|--|--|---|--|---|---|--|
| 09<br>08<br>07<br>06<br>05<br>04<br>03<br>02<br>01<br>31<br>30                         | DATE<br>AUG<br>AUG<br>AUG<br>AUG<br>AUG<br>AUG<br>AUG<br>JUL<br>JUL               | 2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015 | S-310<br>Discharge<br>(ALL DAY)<br>(AC-FT)<br>297<br>200<br>110<br>125<br>59<br>-114<br>-277<br>-102<br>-23<br>-123<br>-296                | S-351<br>Discharge<br>(ALL DAY)<br>(AC-FT)<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                 | S-352<br>Discharge<br>(ALL DAY)<br>(AC-FT)<br>0<br>543<br>543<br>543<br>559<br>654<br>3<br>375<br>763<br>777<br>759  | S-354<br>Discharge<br>(ALL DAY)<br>(AC-FT)<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | L8 Canal Pt<br>Discharge<br>(ALL DAY)<br>(AC-FT)<br>45<br>-85<br>-244<br>-373<br>-474<br>-566<br>-419<br>-437<br>-497<br>-387<br>-385 |  |
| 29<br>28<br>27   | JUL<br>JUL<br>JUL   | 2015<br>2015<br>2015   | -175<br>-407<br>-338   | 0<br>73<br>230  | 724<br>670<br>569  | 0<br>0<br>0   | -337<br>-369<br>-409  |  |
| 09<br>08<br>07<br>06<br>05<br>04<br>03<br>02<br>01<br>31<br>30<br>29<br>28<br>27<br>** | DATE<br>AUG<br>AUG<br>AUG<br>AUG<br>AUG<br>AUG<br>JUL<br>JUL<br>JUL<br>JUL<br>JUL | 2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015 | S-308<br>Discharge<br>(ALL DAY)<br>(AC-FT)<br>-5<br>-3<br>-6<br>-5<br>-3<br>-3<br>-2<br>-2<br>-1<br>-0<br>-0<br>-0<br>-0<br>-0<br>-0<br>-0 | Below S-308<br>Discharge<br>(ALL-DAY)<br>(AC-FT)<br>225<br>-128<br>-212<br>-31<br>-92<br>159<br>-106<br>-39<br>-85<br>-11<br>-188<br>-319<br>-389<br>-294<br>rge from (07 | <pre>3 S-80<br/>Dischargy<br/>(ALL-DAY<br/>(AC-FT)<br/>11<br/>19<br/>38<br/>19<br/>34<br/>34<br/>34<br/>7<br/>43<br/>21<br/>20<br/>13<br/>30<br/>24<br/>10</pre> | e<br>)<br>s computed  | using Spillwa   | y and  |
| Seo  | ctor  |  | Gate D<br>Gate D<br>2) Discha  | ischarges fr<br>rge (ALL DAY  | com 0700 hr:<br>I) is compu  | s to 2100 h<br>ted using S  | rs.<br>pillway, Sect  | or Gate                                      |
|  |   |  | Lockag   | es Discharge  | es from 001  | 5 hrs to 24   | 00 hrs.   |  |

\_

(I) - Flows preceeded by "I" signify an instantaneous
 flow computed from the single value reported for the day

| * On 11 May 1999, Lake Okeechobee Elevation was switched from<br>Instantaneous 2400 value to an average-daily lake average.   |
|---|
| On 14 Mar 2001, due to the isolation of various gages within the  |
| standard  |
| 10 stations, the average of the interior 4 station gages was used as the Lake Okeechobee Elevation.   |
| On 05 November 2010, Lake Okeechobee Elevation was switched to a 9 gage<br>mix of interior and edge gages to obtain a more reliable representation<br>of the lake level.  |
| On 09 May 2011, Lake Okeechobee Elevation was switched to a 8 gage<br>mix of interior and edge gages to obtain a more reliable representation<br>of the lake level due to isolation of S135 from low lake levels.<br>Today Lake Okechobee elevation is determined from the 4 Int & 4 Edge |
| stations  |
| ++ For more information see the Jacksonville District Navigation website<br>at http://www.saj.usace.army.mil/   |
| \$ For information regarding Lake Okeechobee Service Area water   |
| restrictions  |
| please refer to www.sfwmd.gov   |

Report Generated 10AUG2015 @ 13:15 \*\* Preliminary Data - Subject to Revision \*\*

\_



# **Classification Tables**

Supplemental Tables used in conjunction with the LORS2008 Release

Guidance Flow Charts

• Class Limits for Tributary Hydrologic Conditions

Table K-2 in the Lake Okeechobee Water Control Plan

<u>6-15 Day Precipitation Outlook Categories</u>

Table ?? in the Lake Okeechobee Water Control Plan

<u>Classification of Lake Okeechobee Net Inflow for Seasonal</u>

<u>Outlook</u>

 Table K-3 in the Lake Okeechobee Water Control Plan

• Classification of Lake Okeechobee Net Inflow for Multi-

Seasonal Outlook

 Table K-4 in the Lake Okeechobee Water Control Plan

### Back to Lake Okeechobee Operations Main Page

### Back to U.S. Army Corps of Engineers Lake Okeechobee Operations Homepage

| Tributary Hydrologic | Palmer Index   | 2-wk Mean L.O. Net  |
|----------------------|----------------|---------------------|
| Classification*      | Class Limits   | Inflow Class Limits |
| Very Wet             | 3.0 or greater | Greater >= 6000 cfs |
| Wet                  | 1.5 to 2.99    | 2500 - 5999 cfs     |
| Near Normal          | -1.49 to 1.49  | 500 - 2499 cfs      |
| Dry                  | -2.99 to -1.5  | -5000 – 500 cfs     |
| Very Dry             | -3.0 or less   | Less than -5000 cfs |

\* use the wettest of the two indicators

### **Classification of Lake Okeechobee Net Inflow Seasonal Outlook**\*

| Lake Net Inflow<br>Prediction | Equivalent<br>Depth** | Lake Okeechobee  |
|-------------------------------|-----------------------|------------------|
| [million acre-feet]           | [feet]                | Net Inflow       |
|                               |                       | Seasonal Outlook |
| > 0.93                        | > 2.0                 | Very Wet         |
| 0.71 to 0.93                  | 1.51 to 2.0           | Wet              |
| 0.35 to 0.70                  | 0.75 to 1.5           | Normal           |
| < 0.35                        | < 0.75                | Dry              |

\*\*Volume-depth conversion based on average lake surface area of 467,000 acres

### Classification of Lake Okeechobee Net Inflow Multi-Seasonal Outlook\*

| Lake Net Inflow<br>Prediction | Equivalent<br>Depth** | Lake Okeechobee        |
|-------------------------------|-----------------------|------------------------|
| [million acre-feet]           | [feet]                | Net Inflow             |
|                               |                       | Multi-Seasonal Outlook |
| > 2.0                         | > 4.3                 | Very Wet               |
| 1.18 to 2.0                   | 2.51 to 4.3           | Wet                    |
| 0.5 to 1.17                   | 1.1 to 2.5            | Normal                 |
| < 0.5                         | < 1.1                 | Dry                    |

\*\*Volume-depth conversion based on average lake surface area of 467,000 acres

# 6-15 Day Precipitation Outlook Categories\*

| 6-15 Day Precipitation Outlook<br>Categories | WSE Decision Tree<br>Categories |
|--|---------------------------------|
| Above Normal                                 | Wet to Very Wet                 |
| Normal                                       | Normal                          |
| Below Normal                                 | Dry                             |

\* Corresponds to Table 7-6 in the Lake Okeechobee Water Control Plan

Under Construction